

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND the claims as follows:

1. (Currently Amended) A broadcast type communication data distribution apparatus distributing broadcast type communication data in a network, comprising:

~~a broadcast type communication data recognition unit comprising:~~

a first network interface card receiving ~~a receiving device receiving, as data received from a sender,~~ segments of broadcast type communication data sent from a sender through the network as uni-cast communication, the broadcast type communication data having a network address stored in a source address field, which is assigned to be unique in the network on a basis of an identifier of the broadcast type communication data, and control information relating to a relay, a copy and a transfer; ~~wherein a source address field of the data stores a source address, an identifier and control information;~~ and

a copy/transfer unit, wherein the copy/transfer unit includes:

a buffer memory temporarily storing the received broadcast type communication data;

a storage unit storing, in relation to the identifier of the broadcast type communication data, a receiver address to which copied broadcast type communication data is transmitted and a data transfer available/unavailable flag indicating whether a transmission to a receiver is possible;

a second network interface card being connected to the network and transmitting the broadcast type communication data; and

a processor, wherein the processor executes

extracting the identifier of the broadcast type communication data and the control relating to a relay, a copy and a transfer by analyzing the network address stored in the source address field of the received broadcast type communication data;

relaying the broadcast type communication data to be transmitted through the second network interface card in order to transmit the broadcast type communication data to the receiver;

acquiring the receiver address and the data transfer available/unavailable flag corresponding to the identifier of the received broadcast type communication data from the storage unit;

copying the broadcast type communication data on a basis of the acquired data transfer available/unavailable flag; and

transferring the copied broadcast type communication data to one or more receivers other than the addressed receiver or to another distribution device through the second network interface card on a basis of the acquired receiver address

~~an extracting device extracting, from the source address field of the data, the identifier and the control information including a command and information specifying a relay and copy and transfer of the data received from the sender, by analyzing the source address field of the data;~~

~~a storage unit;~~

~~a broadcast type communication control table storage unit including a storage control device storing an address of a receiver for which the data should be copied and transferred, and a data transfer available/unavailable flag addressed to the receiver, in relation to the identifier of the data in the storage unit; and~~

~~a copy/transfer unit comprising:~~

~~a relay device relaying the data to an addressed receiver;~~

~~a copy device copying the data based on the data transfer available/unavailable flag stored in the storage unit; and~~

~~a transfer device transferring the copied data to one or more receivers other than the addressed receiver or another distribution device through the network.~~

Claims 2-5 (Cancelled)

6. (Currently Amended) The broadcast type communication data distribution apparatus according to claim 1, wherein ~~said broadcast communication control table storage unit, further comprises an address addition device adding the processor adds, to the storage unit, the~~ identifier of the received broadcast type communication data, and a destination address of the

broadcast type communication data as a receiver address in relation to the identifier of the data received from the sender identifier, when the processor ~~said broadcast type communication data recognition unit~~ extracts a command from [[the]] control information indicating an addition of a receiver.

7. (Currently Amended) The broadcast type communication data distribution apparatus according to claim 1, wherein ~~said broadcast communication control table storage unit, further comprises a first entry deletion device deleting the processor deletes, from the storage unit, an entry having a receiver address that matches a destination address of~~ received broadcast type communication the data in relation to the identifier of the received broadcast type communication data, data received from the sender when the processor ~~said broadcast type communication data recognition unit~~ extracts a command from [[the]] control information indicating a deletion of a receiver.

8. (Currently Amended) The broadcast type communication data distribution apparatus according to claim 1, wherein ~~said broadcast communication control table storage unit, further comprises a second entry deletion device deleting the processor deletes, from the storage unit, all entries having the identifier in its entry in relation to the identifier of the~~ received broadcast type communication data ~~received from the sender when the processor~~ ~~said broadcast type communication data recognition unit~~ extracts a command from [[the]] control information indicating a deletion of all receivers of broadcast type communication data corresponding to the identifier of the data.

9. (Currently Amended) The broadcast type communication data distribution apparatus according to claim 1, wherein ~~said broadcast communication control table storage unit, further comprises a flag setting device setting the processor sets~~ the data transfer available/unavailable flag, stored in the storage unit, of a receiver address that matches the destination address of the received broadcast type communication data received from the sender to unavailable when the ~~processor~~ ~~said broadcast type communication data recognition unit~~ extracts a command from [[the]] control information indicating a stoppage of data distribution to a receiver.

10. (Currently Amended) The broadcast type communication data distribution apparatus according to claim 1, wherein ~~said broadcast communication control table storage unit, further~~

~~comprises a flag setting device setting the processor sets~~ the data transfer available/unavailable flag, ~~stored in the storage unit,~~ of a receiver address that matches the destination address of the ~~received broadcast type communication data received from the sender to available when the~~ processor ~~said broadcast type communication data recognition unit extracts a command from~~ ~~[[the]]~~ control information indicating a re-start of broadcast type communication data distribution to a receiver.

11. (Currently Amended) The broadcast type communication data distribution apparatus according to claim 1, wherein ~~the processor said copy/transfer unit~~ relays or copies/transfers all segments of the broadcast type communication data received from the sender, including the extracted control information ~~extracted by the broadcast type communication data recognition unit.~~

12. (Currently Amended) The broadcast type communication data distribution apparatus according to claim 1, wherein ~~the processor said copy/transfer unit~~ converts the extracted control information ~~extracted by said broadcast type communication data recognition unit~~ into scrambled information received from the sender and relays or copies and~~[[/]]~~ transfers ~~[[the]]~~ converted broadcast type communication data.

13. (Currently Amended) The broadcast type communication data distribution apparatus according to claim 1, wherein when a target for which broadcast type communication data is relayed or copied/transferred is a receiver of the broadcast type communication data, ~~the processor said copy/transfer unit~~ converts the extracted control information ~~extracted by said broadcast type communication data recognition unit~~ into scrambled information received from the sender and relays or copies and~~[[/]]~~ transfers ~~[[the]]~~ converted broadcast type communication data.

14. (Currently Amended) The broadcast type communication data distribution apparatus according to claim 1, wherein the broadcast type communication data received from the sender includes no data to be finally provided for a receiver.

15. (Currently Amended) The broadcast type communication data distribution apparatus according to claim 1, wherein ~~the processor said broadcast type communication data recognition~~

~~unit~~ analyzes a source address, which is a private address of a MAC address in an Ethernet, and recognizes the broadcast type communication data in a layer 2 network.

16. (Currently Amended) The broadcast type communication data distribution apparatus according to claim 1, wherein ~~the processor said broadcast type communication data recognition unit~~ analyzes a source address, which is an Internet protocol address, and recognizes the broadcast type communication data in a layer 3 network.

17. (Currently Amended) The broadcast type communication data distribution apparatus according to claim 1, wherein ~~the processor said broadcast type communication data recognition unit~~ analyzes a source address, which is a port number of a user data protocol or a transmission control protocol, and recognizes the broadcast type communication data in a layer 4 network.

18. (Currently Amended) A broadcast type communication system conducting broadcast type communications, comprising:

a transmitter apparatus transmitting segments of broadcast type communication data sent from a sender through a network as uni-cast communication, the broadcast type communication data having a network address stored in a source address field, which is assigned to be unique in the network on a basis of an identifier of the broadcast type communication data, and control information relating to a relay a copy and a transfer; and

a copy/transfer unit, wherein the copy/transfer unit includes:

a buffer memory temporarily storing the received broadcast type communication data;

a storage unit storing, in relation to the identifier of the broadcast type communication data, a receiver address to which the copied broadcast type communication data is transmitted and a data transfer available/unavailable flag indicating whether a transmit to a receiver is possible;

a second network interface card being connected to the network and transmitting the broadcast type communication data; and

a processor, wherein the processor executes:

extracting the identifier to the broadcast type communication data and control information relating to a relay, a copy and a transfer by analyzing the network address stored in the source address field of the received broadcast type communication data;

relaying the broadcast type communication data to be transmitted through the second network interface card in order to transmit the broadcast type communication data to the receiver;

acquiring the receiver address and the data transfer available/unavailable flag corresponding to the identifier of the received broadcast type communication data from the storage unit;

copying the broadcast type communication data on a basis of the acquired the data transfer available/unavailable flag; and

transferring the copied broadcast type communication data to one or more receivers other than the addressed receiver or to another distribution device through the second network interface card, on a basis of the acquired receiver address

~~a transmitter apparatus transmitting broadcast type communication data to a receiver through a network in the form of uni-cast communication; and~~

~~a broadcast type communication data distribution apparatus comprising:~~

~~a broadcast type communication data recognition unit including:~~

~~a receiving device receiving, as data received from a sender, segments of broadcast type communication data sent through the network as uni-cast communication, wherein a source address field of the data stores a source address, an identifier and control information; and~~

~~an extracting device extracting, from the source address field of the data, the identifier and the control information including a command and information specifying a relay and copy and transfer of the data received from the sender, by analyzing the source address field of the data; and~~

~~a storage unit;~~

~~a broadcast type communication control table storage unit including a storage control device storing an address of a receiver for which the data should be copied and transferred, and a data transfer available/unavailable flag addressed to the receiver, in relation to the identifier of the data in the storage unit; and~~

~~a copy/transfer unit comprising:~~

~~a relay device relaying the data to an addressed receiver;~~

~~a copy device copying the data based on the data transfer available/unavailable flag stored in the storage unit; and~~

~~a transfer device for transferring the copied data to one or more receivers
other than the addressed receiver or another distribution device through the network.~~

Claims 19-21 (Cancelled)